STADIRA TRAINING INSTITUTE

MARK SCHEME · Mathematics 0580/01 · Paper 1 (Core) · Mock Set 3

Maximum mark: 80

Question	Answer	Marks	Partial marks / guidance
1(a)	1675	B1	
1(b)	360	B1	
1(c)	25	B1	
2(a)	correct bar: football = 11 (height 11, same width)	B2	B1 for bar of correct width in the correct place with wrong height
2(b)	$\frac{1}{6}$	B1	oe
3(a)	$\frac{3}{8}$	B1	
3(b)	37.5	B1	
4(a)	any 6 squares shaded	B1	
4(b)	6 more regions shaded (12 in total)	B1	
5(a)	36	B1	
5(b)	36 and 20	B2	B1 for one correct or for -16 seen as the common difference
6(a)	$\frac{1}{2}$	B2	M1 for 5/6 - 2/6 oe seen
6(b)	$\frac{3}{2}$ oe	B2	M1 for 2/3 × 9/4 oe seen
7(a)	$8k + 5$	B2	B1 for 3k + 7 + 5k - 2 oe seen
7(b)	$2k - 9$	B2	M1 for 5k - 2 - (3k + 7) oe
8	12	B1	
9(a)	32	B2	B1 for 64 or 32 seen
9(b)	$\frac{1}{10}$ oe	B1	
9(c)	23 or 29	B1	
10	$a = 66$	B1	vertically opposite the third angle
	$b = 114$	B1	ft 180 - their a
	$c = 112$	B1	ft 180 - 68
11(a)	(20 - 8) ÷ 4 + 2 = 5	B1	
11(b)	(12 - 3) × 2 + 4 = 22	B1	
12	4^5	B2	B1 for 4^3+2 or 1024 seen
13	0.9	B1	
14	3 | 3 5 6 8 4 | 1 4 7 8 5 | 0 2 9 6 | 1	B2	B1 for ordered leaves with one error or unordered but complete
15(a)	0.3	B2	M1 for 1 - (0.3 + 0.25 + 0.15) oe
15(b)	120	B1	ft 400 × 0.3
16(a)	30	B2	M1 for 5 × 3 × 2 oe
16(b)	62	B3	M2 for 2(5×3) + 2(5×2) + 2(3×2) or M1 for two correct face areas seen
17	45π	B3	M1 for π × 9^2 or π × 6^2 seen M1 for their 81π - their 36π

18	$5y(2y - 5)$	**B2**	B1 for 5(...) or y(10y - 25) seen
19(a)	3, 9 in the intersection 6 in A only; 1, 5, 7 in B only 2, 4, 8, 10 outside	**B2**	B1 for two of the three regions correct
19(b)	6	**B1**	ft their Venn diagram
20	$x = 3$	**M1**	for a correct method to eliminate
	$y = 5$	**M1**	one variable (adding the equations)
		A1 A1	A1 for each of x and y
21(a)	triangle at (2, -1), (2, -4), (4, -1)	**B2**	B1 for reflection in the y-axis
21(b)	triangle at (-3, 2), (-3, 5), (-1, 2)	**B2**	B1 for a translation by 5|1 or -5|-1
21(c)	triangle at (1, -2), (4, -2), (1, -4)	**B2**	B1 for a rotation 90° anticlockwise
22(a)	$2x^2 + 11x - 6$	**B2**	B1 for three of $2x^2$, 12x, -x, -6
22(b)	$x = 5$	**B2**	M1 for 5x + 15 = 40 or x + 3 = 8 oe
23(a)	60	**B2**	M1 for 180 ÷ 3 oe
23(b)	$r = \frac{C}{2\pi}$	**B1**	
24(a)	450	**B2**	M1 for 1500 ÷ 10 or 150 seen
24(b)	30	**B2**	M1 for 450/1500 × 100 oe
25(a)	2040	**B2**	M1 for 2400 × 0.85 oe, or 360 seen
25(b)	$\frac{3}{20}$	**B1**	
26(a)	3	**B2**	M1 for 14 - 2/5 - 1 oe seen
26(b)	$y = 3x - 1$	**B1**	ft their gradient
27	6.2×10^4	**B1**	

M = method mark · A = accuracy mark · B = independent mark · FT = follow through

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